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Amendment of the claims under Article 19(1)

CLAIMS

[1] (Deleted)

[2] (Deleted)

[3] (Deleted)

5 [4] (Amended) A mobile communication terminal comprising:

image projection means for projecting an operation-plane image that displays
virtually an operation-plane of an operation device operated by users;

operation detection means for detecting operation on the operation-plane image
projected by the image projection means;

10 data processing means for performing a predetermined data process based on the
detection result of operation detected by the operation detection means; and

application execution management means for managing execution environment of
an application program selected from a plurality of application programs that is
downloaded via a mobile communication network; wherein

15 the image projection means projects an operation-plane image corresponding to
recognition function designated by designation information received from the application
execution management means, among a plurality of kinds of mutually different
operation-plane images; and

the operation detection means has a plurality of kinds of mutually different
20 recognition functions to recognize operation content by at least one of position, direction
and movement of an operation object on the plurality of kinds of operation-plane images,
and detects operation on the operation-plane image by using the recognition function
designated by designation information received from the application execution
management means.

25 [5] (Deleted)

[6] (Amended) A mobile communication terminal comprising:

image projection means for projecting an operation-plane image that displays virtually an operation-plane of an operation device operated by users;

operation detection means for detecting operation on the operation-plane image
5 projected by the image projection means;

data processing means for performing a predetermined data process based on the detection result of operation detected by the operation detection means; and

application execution management means for managing execution environment of an application program selected from a plurality of application programs that is
10 downloaded via a mobile communication network; wherein

the image projection means projects an operation-plane image corresponding to recognition function designated by designation information received from the application execution management means, among a plurality of kinds of mutually different operation-plane images; and

15 the operation detection means has a plurality of kinds of mutually different recognition functions to recognize operation content by at least one of position, direction and movement of an operation object on the plurality of kinds of operation-plane images, and detects operation on the operation-plane image by using the recognition function corresponding to the operation-plane image designated by designation information
20 received from the application execution management means.

[7] (Amended) A mobile communication terminal comprising:

image projection means for projecting an operation-plane image that displays virtually an operation-plane of an operation device operated by users;

operation detection means for detecting operation on the operation-plane image
25 projected by the image projection means;

data processing means for performing a predetermined data process based on the detection result of operation detected by the operation detection means;

memory means for memorizing a plurality of image data corresponding to each of a plurality of kinds of operation-plane images;

5 application execution management means for executing an application program selected from a plurality of application programs that is downloaded via a mobile communication network; and

instruction generation means for generating an operation-plane image selection instruction in accordance with content of the selected application program; wherein

10 the image projection means selects an image data from the plurality of image data memorized in the memory based on the operation-plane image selection instruction generated by the instruction generation means, and projects the operation-plane image of the selected image data; and

the application program execution management means performs a data process
15 corresponding to operation detected by the operation detection means in accordance with the content of the application program during execution of the selected application program.

[8] (Amended) A mobile communication terminal comprising:

image projection means for projecting an operation-plane image that displays
20 virtually an operation-plane of an operation device operated by users;

operation detection means for detecting operation on the operation-plane image projected by the image projection means;

application execution management means for executing an application program selected from a plurality of application programs that is downloaded via a mobile
25 communication network, and performs a data process corresponding to operation detected

by the operation detection means in accordance with the content of the application program; and

data readout means for reading out image data of an operation-plane image included in the content of the application program; wherein

5 the image projection means projects an operation-plane image based on the image data read out by the data readout means when executing the selected application program.

[9] (Deleted)

[10] (Deleted)

[11] (Deleted)

10 [12] (Amended) A mobile communication terminal according to claim 4, 6, 7 or 8, wherein

the mobile communication terminal is configured by using comprising a light source, a spatial light modulation unit for modulating light output from the light source, and an optical system for projection imaging that projects by imaging a light image output
15 from the spatial light modulation unit on an external projection screen,

the mobile communication terminal comprises an optical system for diffused illumination for homogeneously illuminating by diffusing light output from the light source to an external illumination plane, and

the light source and the spatial light modulation unit are both shared to generate a
20 light image subject to projection and generate a light subject to diffused illumination.

[13] A mobile communication terminal according to claim 12, the mobile communication terminal comprising:

a camera unit that generates image data by transforming the light-image to electric signals; and

25 an optical system for camera imaging for imaging the light image subject to

shooting on the camera unit; wherein

the operation detection means is configured by using operation object detection means for detecting at least one of position, direction, and movement of an operation object operating on the operation-plane image and operation detection data generation
5 means for generating operation detection data corresponding to position, direction or movement of the operation object based on the detection results of the operation object detection means; and

the camera unit and the optical system for camera imaging are both shared as the operation object detection means.

10 [14] (Deleted)